

0200

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/575,554

DATE: 05/31/2000  
TIME: 17:30:51

Input Set : A:\ESPT0.txt  
Output Set: N:\CRF3\05312000\I575554.raw

ENTERED

3 (1) GENERAL INFORMATION:  
4 (i) APPLICANT: Monia, B.P., Cowsert, L.M. and Manoharan, M.  
6 (ii) TITLE OF INVENTION: Antisense Oligonucleotide Inhibition of ras  
8 (iii) NUMBER OF SEQUENCES: 55  
9 (iv) CORRESPONDENCE ADDRESS:  
10 (A) ADDRESSEE: Jane Massey Licata  
11 (B) STREET: 66 East Main Street  
12 (C) CITY: Marlton  
13 (D) STATE: NJ  
14 (E) COUNTRY: USA  
15 (F) ZIP: 08053  
16 (v) COMPUTER READABLE FORM:  
17 (A) MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 Mb STORAGE  
18 (B) COMPUTER: IBM COMPATIBLE  
19 (C) OPERATING SYSTEM: WINDOWS 95  
20 (D) SOFTWARE: WORDPERFECT 6.1 for WINDOWS  
C--> 21 (vi) CURRENT APPLICATION DATA:  
C--> 22 (A) APPLICATION NUMBER: US/09/575,554  
C--> 23 (B) FILING DATE: 22-May-2000  
24 (C) CLASSIFICATION:  
C--> 37 (vii) PRIOR APPLICATION DATA:  
26 (A) APPLICATION NUMBER: 09/128,494  
27 (B) FILING DATE: August 3, 1998  
29 (A) APPLICATION NUMBER: 08/411,734  
30 (B) FILING DATE: April 3, 1995  
32 (A) APPLICATION NUMBER: PCT/US93/09346  
33 (B) FILING DATE: October 1, 1993  
35 (A) APPLICATION NUMBER: 07/958,134  
36 (B) FILING DATE: October 5, 1992  
38 (A) APPLICATION NUMBER: 08/007,996  
39 (B) FILING DATE: January 21, 1993  
40 (viii) ATTORNEY/AGENT INFORMATION:  
41 (A) NAME: Jane Massey Licata  
42 (B) REGISTRATION NUMBER: 32,257  
43 (C) REFERENCE/DOCKET NUMBER: ISPH-0463  
44 (ix) TELECOMMUNICATION INFORMATION:  
45 (A) TELEPHONE: (856) 810-1515  
46 (B) TELEFAX: (856) 810-1454  
48 (2) INFORMATION FOR SEQ ID NO: 1:  
49 (i) SEQUENCE CHARACTERISTICS:  
50 (A) LENGTH: 20  
51 (B) TYPE: Nucleic Acid  
52 (C) STRANDEDNESS: Single  
53 (D) TOPOLOGY: Linear  
54 (iv) ANTI-SENSE: Yes  
C--> 55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
56 CTTATATTCC GTCATCGCTC

20

## RAW SEQUENCE LISTING

DATE: 05/31/2000

PATENT APPLICATION: US/09/575,554

TIME: 17:30:51

Input Set : A:\ESPTO.txt

Output Set: N:\CRF3\05312000\I575554.raw

```

58 (2) INFORMATION FOR SEQ ID NO: 2:
59   (i) SEQUENCE CHARACTERISTICS:
60       (A) LENGTH: 20
61       (B) TYPE: Nucleic Acid
62       (C) STRANDEDNESS: Single
63       (D) TOPOLOGY: Linear
64   (iv) ANTI-SENSE: Yes
C--> 65   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
66       TCCGTCATCG CTCCTCAGGG                                20
68 (2) INFORMATION FOR SEQ ID NO: 3:
69   (i) SEQUENCE CHARACTERISTICS:
70       (A) LENGTH: 17
71       (B) TYPE: Nucleic Acid
72       (C) STRANDEDNESS: Single
73       (D) TOPOLOGY: Linear
74   (iv) ANTI-SENSE: Yes
C--> 75   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
76       CCACACCGAC GGCGCCC                                17
78 (2) INFORMATION FOR SEQ ID NO: 4:
79   (i) SEQUENCE CHARACTERISTICS:
80       (A) LENGTH: 19
81       (B) TYPE: Nucleic Acid
82       (C) STRANDEDNESS: Single
83       (D) TOPOLOGY: Linear
84   (iv) ANTI-SENSE: Yes
C--> 85   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
86       CCCACACCGA CGGCGCCCA                                19
88 (2) INFORMATION FOR SEQ ID NO: 5:
89   (i) SEQUENCE CHARACTERISTICS:
90       (A) LENGTH: 21
91       (B) TYPE: Nucleic Acid
92       (C) STRANDEDNESS: Single
93       (D) TOPOLOGY: Linear
94   (iv) ANTI-SENSE: Yes
C--> 95   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
96       GCCCACACCG ACGGCGCCCA C                                21
98 (2) INFORMATION FOR SEQ ID NO: 6:
99   (i) SEQUENCE CHARACTERISTICS:
100      (A) LENGTH: 23
101      (B) TYPE: Nucleic Acid
102      (C) STRANDEDNESS: Single
103      (D) TOPOLOGY: Linear
104   (iv) ANTI-SENSE: Yes
C--> 105   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
106      TGCCACACCG GACGGCGCCC ACC                                23
108 (2) INFORMATION FOR SEQ ID NO: 7:
109   (i) SEQUENCE CHARACTERISTICS:
110      (A) LENGTH: 20
111      (B) TYPE: Nucleic Acid

```

RAW SEQUENCE LISTING                      DATE: 05/31/2000  
 PATENT APPLICATION:    US/09/575,554        TIME: 17:30:51

Input Set : A:\ESPTO.txt  
 Output Set: N:\CRF3\05312000\I575554.raw

```

112          (C) STRANDEDNESS: Single
113          (D) TOPOLOGY: Linear
114          (iv) ANTI-SENSE: Yes
C--> 115      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
116          TATTCCGTCA TCGCTCCTCA
118 (2) INFORMATION FOR SEQ ID NO: 8:
119          (i) SEQUENCE CHARACTERISTICS:
120              (A) LENGTH: 5
121              (B) TYPE: Nucleic Acid
122              (C) STRANDEDNESS: Single
123              (D) TOPOLOGY: Linear
124          (iv) ANTI-SENSE: Yes
C--> 125      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
126          CGACG
128 (2) INFORMATION FOR SEQ ID NO: 9:
129          (i) SEQUENCE CHARACTERISTICS:
130              (A) LENGTH: 7
131              (B) TYPE: Nucleic Acid
132              (C) STRANDEDNESS: Single
133              (D) TOPOLOGY: Linear
134          (iv) ANTI-SENSE: Yes
C--> 135      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
136          CCGACGG
138 (2) INFORMATION FOR SEQ ID NO: 10:
139          (i) SEQUENCE CHARACTERISTICS:
140              (A) LENGTH: 9
141              (B) TYPE: Nucleic Acid
142              (C) STRANDEDNESS: Single
143              (D) TOPOLOGY: Linear
144          (iv) ANTI-SENSE: Yes
C--> 145      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
146          ACCGACGGC
148 (2) INFORMATION FOR SEQ ID NO: 11:
149          (i) SEQUENCE CHARACTERISTICS:
150              (A) LENGTH: 11
151              (B) TYPE: Nucleic Acid
152              (C) STRANDEDNESS: Single
153              (D) TOPOLOGY: Linear
154          (iv) ANTI-SENSE: Yes
C--> 155      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
156          CACCGACGGC G
158 (2) INFORMATION FOR SEQ ID NO: 12:
159          (i) SEQUENCE CHARACTERISTICS:
160              (A) LENGTH: 13
161              (B) TYPE: Nucleic Acid
162              (C) STRANDEDNESS: Single
163              (D) TOPOLOGY: Linear
164          (iv) ANTI-SENSE: Yes
C--> 165      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/575,554

DATE: 05/31/2000  
 TIME: 17:30:51

Input Set : A:\ESPTO.txt  
 Output Set: N:\CRF3\05312000\I575554.raw

```

166      ACACCGACGG CGC                                     13
168 (2) INFORMATION FOR SEQ ID NO: 13:
169      (i) SEQUENCE CHARACTERISTICS:
170          (A) LENGTH: 15
171          (B) TYPE: Nucleic Acid
172          (C) STRANDEDNESS: Single
173          (D) TOPOLOGY: Linear
174      (iv) ANTI-SENSE: Yes
C--> 175      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
176      CACACCGACG GCGCC                                     15
178 (2) INFORMATION FOR SEQ ID NO: 14:
179      (i) SEQUENCE CHARACTERISTICS:
180          (A) LENGTH: 16
181          (B) TYPE: Nucleic Acid
182          (C) STRANDEDNESS: Single
183          (D) TOPOLOGY: Linear
184      (iv) ANTI-SENSE: Yes
C--> 185      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
186      CCACACCGAC GCGGCC                                     16
188 (2) INFORMATION FOR SEQ ID NO: 15:
189      (i) SEQUENCE CHARACTERISTICS:
190          (A) LENGTH: 16
191          (B) TYPE: Nucleic Acid
192          (C) STRANDEDNESS: Single
193          (D) TOPOLOGY: Linear
194      (iv) ANTI-SENSE: Yes
C--> 195      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
196      CACACCGACG GCGCCC                                     16
198 (2) INFORMATION FOR SEQ ID NO: 16:
199      (i) SEQUENCE CHARACTERISTICS:
200          (A) LENGTH: 18
201          (B) TYPE: Nucleic Acid
202          (C) STRANDEDNESS: Single
203          (D) TOPOLOGY: Linear
204      (iv) ANTI-SENSE: Yes
C--> 205      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
206      CCCACACCGA CGGCGCCC                                     18
208 (2) INFORMATION FOR SEQ ID NO: 17:
209      (i) SEQUENCE CHARACTERISTICS:
210          (A) LENGTH: 18
211          (B) TYPE: Nucleic Acid
212          (C) STRANDEDNESS: Single
213          (D) TOPOLOGY: Linear
214      (iv) ANTI-SENSE: Yes
C--> 215      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
216      CCACACCGAC GCGCCCA                                     18
218 (2) INFORMATION FOR SEQ ID NO: 18:
219      (i) SEQUENCE CHARACTERISTICS:
220          (A) LENGTH: 25

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/575,554

DATE: 05/31/2000  
 TIME: 17:30:51

Input Set : A:\ESPT0.txt  
 Output Set: N:\CRF3\05312000\I575554.raw

```

221         (B) TYPE: Nucleic Acid
222         (C) STRANDEDNESS: Single
223         (D) TOPOLOGY: Linear
224         (iv) ANTI-SENSE: Yes
C--> 225         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
226         TTGCCACAC CGACGGCGCC CACCA
228 (2) INFORMATION FOR SEQ ID NO: 19:
229         (i) SEQUENCE CHARACTERISTICS:
230             (A) LENGTH: 17
231             (B) TYPE: Nucleic Acid
232             (C) STRANDEDNESS: Single
233             (D) TOPOLOGY: Linear
234         (iv) ANTI-SENSE: Yes
C--> 235         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:
236         CCACACCGCC GCGGCC
238 (2) INFORMATION FOR SEQ ID NO: 20:
239         (i) SEQUENCE CHARACTERISTICS:
240             (A) LENGTH: 20
241             (B) TYPE: Nucleic Acid
242             (C) STRANDEDNESS: Single
243             (D) TOPOLOGY: Linear
244         (iv) ANTI-SENSE: Yes
C--> 245         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:
246         CTGCCTCCGC CGCCGCGGCC
248 (2) INFORMATION FOR SEQ ID NO: 21:
249         (i) SEQUENCE CHARACTERISTICS:
250             (A) LENGTH: 20
251             (B) TYPE: Nucleic Acid
252             (C) STRANDEDNESS: Single
253             (D) TOPOLOGY: Linear
254         (iv) ANTI-SENSE: Yes
C--> 255         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:
256         CAGTGCCTGC GCCGCGCTCG
258 (2) INFORMATION FOR SEQ ID NO: 22:
259         (i) SEQUENCE CHARACTERISTICS:
260             (A) LENGTH: 20
261             (B) TYPE: Nucleic Acid
262             (C) STRANDEDNESS: Single
263             (D) TOPOLOGY: Linear
264         (iv) ANTI-SENSE: Yes
C--> 265         (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:
266         AGGCCTCTCT CCCGCACCTG
268 (2) INFORMATION FOR SEQ ID NO: 23:
269         (i) SEQUENCE CHARACTERISTICS:
270             (A) LENGTH: 20
271             (B) TYPE: Nucleic Acid
272             (C) STRANDEDNESS: Single
273             (D) TOPOLOGY: Linear
274         (iv) ANTI-SENSE: Yes

```



VERIFICATION SUMMARY

DATE: 05/31/2000

PATENT APPLICATION: US/09/575,554

TIME: 17:30:52

Input Set : A:\ESPTO.txt

Output Set: N:\CRF3\05312000\I575554.raw

L:485 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]  
L:495 M:220 C: Keyword misspelled or invalid format, [(xi) SEQUENCE DESCRIPTION: SEQ ID NO:]